

406 o 3 2001

1631

TECH CENTER 1600, 2900

RAW SEQUENCE LISTING

1

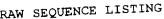
PATENT APPLICATION: US/08/939,905B

DATE: 07/11/2001 TIME: 10:00:10

Input Set : A:\873726u1.sq1

Output Set: N:\CRF3\07112001\H939905B.raw

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66	1		~ ~ ~ ~ ~		-	t ca	ate	tust	tat	get	cag	ctt	act	cct.	acq	tto	510
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7 : 7 :	Tar	Ara	Glu	aca Thr	Cys	P,r⊃	Asn	110 4	Phe	Eco	11€	Val	45 45	GTA	Val	11.0	
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77	Ph∈	Asp	Ala	Cer	File	11:L	ASE	11.5	2-1-9		-	60					
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DATE: 07/11/2001 RAW SEQUENCE LISTING TIME: 10:0 :10 FATENT APPLICATION: US/08/939,905B

Input Set : A:\873726ul.sq1
Sutput Set: N:\CRF3\07112001\H939905B.raw

Jutput List. R. Constant	406
100 gtt cca tta yga aga agg gac ago tta ama gca aac cga acc ctt gca 101 Val Ern Leu Gly Arg Arg Asp Ser Leu Thr Ala Ash Arg Thr Leu Ala 155 160	48(
and 1/5	52P
105 Asn Gln Asn Led Fir Ara 121 170 170 170 170 170 170 170 170 170 17	576
109 Ser Fhe Ala Val 711 317 223 195	62.4
185 110 187 110 188 110 111 ggt ggt dat add tit gga aga qct dag tgd agt ada tit ati aad dga 111 ggt ggt dat add tit gga aga qct dag tgd agt, ada tit ati aad dga 111 ggt ggt dat add tit gga aga qct dag tgd agt, ada tit ati aad dga 112 ggt ggt dat add tit gga aga qct dag tgd agt, ada tit ati aad dga 113 Gly Giy His The She Gly Arg Ala Arg Cys Ser Thr Phe Ile Ash Ard 113 Gly Giy His The She Gly Arg Ala Arg Cys Ser Thr Phe Ile Ash Ard 1200	67.2
113 Gry 57, 125 114 120 114 120 115 tta ted aac tt: agr aac act gga acc cct gat cca act ctg aac aca 115 tta ted aac tt: agr aac act gga acc cct gat cca act ctg aac aca 116 tta ted aac tt: agr aac act gga acc cct gat cca act ctg aac aca 117 Leu Tyr Asn Phe Ser Asn Thr Ciy Asn Pro Asp Pro Thr Leu Asn Thr 117 Leu Tyr Asn Phe Ser Asn Thr Ciy Asn Pro Asp Pro Thr Leu Asn Thr 117 Leu Tyr Asn Phe Ser Asn Thr Ciy Asn Pro Asp Pro Thr Leu Asn Thr	
116 210 215 126 210 210 215 120 aca tac tta gaa giw teg ogt goa aya too dee cag aat goa ayt gd; 120 aca tac tta gaa giw teg ogt goa aya too dee cag aat goa ayt gd; 121 Thr Tyr Leu Glu Vai Leu Arg Ala Arg Cys Pro Gln Ash Ala Thr Gly 235 235	720
131 Thr Tyr Leu Giu vai 235	763
115 Asp Ash Leu III Ash 250 250	816
129 Arg Tyr Tyr 101 Ast. Down 165	8.4
133 Gln Glu Bau ren en en 280 (85)	912
137 Ser Phe Ser Set Ash San Ser 139 300 300	<u>1460</u>
295 138 290 295 140 atg ata aaa atg git aat att jga jtg otg act jjj gat gaa gga gaa 140 atg ata aaa atg git aat att jga jtg otg act jjj gat gaa gga gaa 140 Asg ata aaa atg git aat att jga jtg otg act jjj gat gaa gga gaa 140 Asg atg ata aaa atg git aat att jga jtg otg act jjj gat gaa gga gaa 140 Asg atg atg atg atg atg atg atg atg atg at	1.008
142 305 142 305 144 att bjo ttg gaa tijt aat tit gig aat gga gad tog tit gga tia get 144 att bjo tig gaa tijt aat tit gig aat gga gad tog tit gga tia get 145 Ile Arg heu Gin Tys Asn Phe Val Asn Oly Asp Ser Phe Gly Leu Ala 145 Ile Arg heu Gin Tys Asn Phe Val Asn Oly Asp Ser Phe Gly Leu Ala 145 Ile Arg heu Gin Tys Asn Phe Val Asn Oly Asp Ser Phe Gly Leu Ala	
146 116 Arg Had 5.05 146 148 agt gtg gtg tor aga gat got aga caa aag out gtt got caa tot aga 148 agt gtg gtg tor aga gat got aga caa aag out gtt gct caa tot aga 148 agt gtg gtg tor aga gat got aga caa aag out gtt gct caa tot aga 148 agt gtg gtg gtg aga aga gat aggttgt gat aga gat aggttgt	1056
150 The same are attact addg atgtg catgo tagotagost gtasaggdad attadgetg	1116 1176 1336
150 tadaceaded 150 tadaceaded 150 tadaceaded 154 asacctottt gotagerata ttgaaataaa ccaaaggagt aqugageded 154 asacctottt gotagerata 156 tttgccatgt acctettgga atattatgta ataattattt gaatotottt aaggtactta 158 attaatca	1244
161 - 110 - SEQ ID NO: 0- 183 - 111 LENGIH: 47 -0	
165 - D12 TYPE: ENA 167 - D13 - ORGANISM: Plydine max 171 - D20 - FEATURE:	
173 R221 · NAME/KEY: promoter	



RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/939,905B

DATE: 0//11/2001 TIME: 10:00:10

Input Set : A:\873726u1.sq1

ow...put Set: N:\CRF3\07112001\H939905B.raw

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175 July LOCATION: (1)..(1532)
170 JUNE PEATURE:
151 US1 MAME/FET: sig_peptide
                    HOPATION: (1/38)...(1617)
101 -2-
187 BIDD FEATURE:
19 - 111 - DAMESFET: exim
131 - 222 | LETATE M: (1975)...(1751)
 195 - 210 - FEATURE:
137 - 221 - MAME/FEV: ex.n
 198 - 222 - LOCATIVA: (238-)..(2574)
 203 - 220 - FEATUFE:
 205 - 721 - MAME/FER: exch
                     LOCATE:: (:000)..(?769)
  557 222
  H1 220 FEATURE:
  .l--2.1-(MAME/FE): ex n
                      БССТАТЬ 40: (403a)..(4515)
  -1^{\mathfrak{c}_{i_1}}\cdots 1^{\mathfrak{c}_{i_{m-1}}}
  113 0120 - FEATURE:
   MAI - MAI - MAME/KEY: Indian
   023 2005 LOCATION: (1954)..(2584)
   227 JU20 - FEATURE:
   229 - 221 - MANDS FEY: Intron
   231 - 222 - LOWATION: (2575)..(5004)
    135 - 2.00 FEATURE:
    237 + 221 + NAME/FEY: Intron
            ___22 - LeCATTed: (-/30)...4032)
    . . . . .
    .42 - TO - FEATURE:
    148 - 221 - NAME/RET: CES
    247 - 222 - LOCATION: (1513)..(1751)
     281 - 220 - FEATURE:
    053 - 201 - NAME/FET: CDS
     255 - 222 - LOCATION: (2383)..(2574)
     259 /2004 FEATURE:
     261 201 - MAME/FEY: COS
     263 - .22 - LOCATION: (5065)..(5069)
     167 - 220 - PEATURE:
      269 -021 - DAME/KEY: CDS
      271 - 222 - LOCATION: 4033)..(4512)
      2/6 tagataaaaa uutggyarat aattittoto agatgiigti tataoigtii tittaatoag
      .78 aattaaaatt oototttaat tatogadata atttttttg gtgaatatta togadataat
                                                                                                                                                                      1.40
      ..... tatttaata: aaatttttat tytsmataga agtgatactt caattttaat attggagaac
                                                                                                                                                                      130
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       umu aqtaogamaa mitammamaa otgitattag aagaaaaaaa tataiggaaa aggitagota
       . 44 matatatta; maaarragt tyttitaatt gydtatataa addetattyt adtetttyta
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        The athtempit intestitae atamattict actifitiang tictatatit tetoteaait
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       248 ttentegata saccandada titaacatgg tatateageg ataecaecea etitgadage
       ... with the state of the state
                                                                                                                                                                       480
       Lar atagatgtus ottttuttga ggasotcatg ccaatggtac tgattgtgaa actgagaaaa
                                                                                                                                                                       540
       134 Haattigga gaattigaat tätgateatt aaataetest eteetgaeta eettegteee
                                                                                                                                                                        600
                                                                                                                                                                        660
        190 traaatttyt accatuutta tttrocaaaa atttgattac aatgcactaa ttaatgaatg
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DATE: 07/11/2001 RAW SEQUENCE LISTING TIME: 10:00:10 PATENT APPLICATION: US/08/939,905B

Input Set : A:\873726u1.sq1
Output Set: N:\CRF3\07112001\H939905B.raw

output voice	720
tootatotaa cartitotti ttactitita taataattat	
298 titottadat tatdatatta toatakotga dattitgitt tiadititta taatkattat 298 titottadat tatdatatta toataatiiri taatagitta dagitaaatt litaasagisa	7 = 1
300 titaaaaagt catacatqoa aacaat coo aaraar taataat taataaaat cocaaaacaa	841)
900 aaatgoatga aaattaaabb blackbess an Sirring raradoutaa btaattotgg	90:1
- 3.4 tgattatttt ttgcamacida atgettar-g	91.
in that ggt gto a at gtt of and add the add a set the grant grant the grant grant the grant gran	10.0
will attituaact tatrittling caagamisas threathout thturagagt garatgetes	1050
Rin ottitgitti tigigitaaaa aacag'aasa tillollaas toogaasi aataagiitti	1110
Rin aaccatatta achaagatti taari gama iliii ahaan aharcaacdi titicigaaat	12:00
31. aaccatatta acquagattt taattogtat todageteat gadacea, 31. aaccatatta acquagattt taattogtaaca teratgeaaa ataccaacge teleetgaaat 314 ggeotecage teleeaatte cattamaaca teratgeaaa aaattaatte toaggaaqat	1200
314 ggtottoagt tithoaatiit oattamaada tittatgidda adalbaaggi toamgaaqat 316 tigtigottig tigtigotoonaa ooasatiitaa gagattatag aaastaaatii toamgaaqaa 316 tigtigottig tigtigotoonaa ooasatiitaa gagatadaataa atooastoon aaastaaaqaa	13
316 fitgitigettig tighigeterma dealattiaa galjattatay dadeelaticat aaateaadaa 318 aatigattest actistigetig geestaceut agtacaataa ateeasticat aaateaadaa 318 aatigaticat actistig geestaceut sataaacaat aegtacigtiga tathateiag	1080
31% aatgattost actottgotg goodtacdut agtaduataa atcaductaa tattatotag 31% qtogtogtoa taygraattg ggoatbatat bataaabaat abgtabgtga tattatotag 31% qtogtogtoa taygraattg ggoatbatat tittotttaa aaaaagttaa titabtaabaa	144.1
310 qtogtogtoa taqqaaattg qgcatcatat catadacaat dogodhysis 310 tgtototoag ttiachtrat qagaaqttat ttttotttaa aaaaagttaa ttadtaaaaa 310 tgtototoag ttiachtrat qagaaqta ogoogaatto atototataa atadaagqat	15000
312 tigtototoag tilacithat pagaalitat tittottaa addageeda atawaaggat 324 cattigogat accidigagit acaagaaato ogoogaatto atototataa atawaaggat 324 cattigogat accidigagit acaagaaato ogoogaatto atototataa atawaaggat	1553
324 datttgogat adigtgagtt acaagaaati ogoogaacto daddattg ogt oti tta 337 otatatgaga gotaaaatoa tattasotoa aa atg ggt too atg ogt oti tta Met (17 Sei Net Arg Le , Leu	
	1.00
320 gta gtg gca ttg tig tgt gca ttt gc atg cat gca igt ttt tca gtc 320 gta gtg gca ttg tig tgt gca ttt gc Ala Met His Ala Gly Phe Ser Val	
320 gta gtg gca ttg ttg tgt gca ttt gc atg dat gca 190 Phe Ser Val 331 Val Val Ala meu bed Cys Ala Phe Ala Met His Ala Gly Phe Ser Val	
331 Val Val Ala neu 200 01-	1643
10 10 10 204 tot fat got day but abt cot and tto tac aga gas aca tgt cos sat 204 tot fat got day but abt cot and tto tac aga gas aca tgt cos sat	1010
174 tot hat got day but act oct acg the tac aga gdd assets Fro Asn 1835 Ser Tyr Ala Gin Lou Tur Pro Thr Phe Tyr Ang Glu Thr Cys Pro Asn 1835 Ser Tyr Ala Gin Lou Tur Pro Thr Phe Tyr Ang Glu Thr Cys Pro Asn	
335 Ser Tyr Ala and bou 131 15 30	1697
1996 25	14:27
1888 otg tto cot and grapho old Mar Ile Phe Asp Ala Ser Phe Thr Asp	
the Leu Phe Pro 118 var the Strand accompany	1/45
440 40 to the second to the se	1 . 4)
42 coo ega ato 433 gro age of Arg Leu H.s Phe His Asp Cys Fhe	
443 Pro Arg Ile Gly Ala sel Box and age 70	1
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84% gtt daa gtadytadtt tittittid tittidd addudg sir - /	
347 Val Gln	1.561
Mil tgetttgtte neetuqaaaa atgtpttttt itsaacqate elaggaageaac gtttttttaa 352 tgaaaaataa ateagaaaga gateaajaaa atagetaqaa agaaageaac gttttttta 352 tgaaaaataa ateagaaga gateaajaaa etgaagagaa agaaattaaa taagetttte	1.4.11
450 traaaaataa atoagaadaya gacamaraan jaraanaan arayattaaa tangattitto	1941
354 aangtattta otga Modaa autonidaan kannat +++++httptta agttgtgctt	041
New transfer titadatget tea nadata i i i i neet an taattatt titaattaat	2101
358 gaagaaaaa gatguuttu agustasti, baattatta tattteat gatgacaaca	. 161
Ten taattaatad tatataldia kuluukutuu hiili ka keele keele aaaaa aaldittigo	2221
yar dadaagtatt staaaagagys deergamaan)	31
e: gtgtatagat attottttat aattigtgca gaaacteyta algotataggag acaaatcaaq 366 tacattgatt aantaatago tatuatcaat atttagytta ggtataggag acaaatcaaq 366 tacattgatt aantaatago tatuatcaat atttagytta ggtatag ga toa	. 41
will tacattuatt anntagged tatlateaat attragged gyddoggas cat ca	:97
New tacattratt anniantage tatrateast accomplete ggettyt gat ggs tea New tgatetraan anniangtt gttritattig eattrigada g ggt tyt gat ggs tea Oly Cys Asp Gly Ser	
369 75	
70.	445
470 472 gtt ttg ctg dac hac act gat aca ath gaa age gag caa gat gca ctt 472 gtt ttg ctg dac hac act gat aca ath gaa age gag caa gat gca ctt	
472 gtt ttg ctg dae dae act git aca ath gaa ade gag com 473 Val Leu Leu Asm Asm Thr Amp Thr lle Glu Ser Glu Glm Asp Ala Leu 473 Val Leu Leu Asm Asm Thr Amp Thr lle Glu Ser Glu Glm Asp Ala Leu	
7/3 Val Ded Bod 7557 757 90 90	_493
174 80 ET 176 cca aat atc aac tca ata aga gga ttg gac gtt gtc aat gac atc aag 176 cca aat atc aac tca ata aga gga ttg gac gtt gtc aat gac atc aag	
276 cca aat atc aac tca ata aga gga ttg gac gut gus dan Asp Ile Lys 277 Pro Asn Ile Asn Ser Ile Arg Gly Leu Asp Val Val Asn Asp Ile Lys 105	
777 Pro Ash Tie Ash 591 - 105	
·78 95	

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Input Set : A:\873726ul.sq1
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38% aca gog gtg gaa aat agt tgt coa gac aca gtt tot tgt got gar and act grant No. No. Clu Ash Ser Cys Pro Ash Thr Val Ser Cys Ala Ash Ile	2541
381 384 -tt get att gea get gaa ata get tet gtt etg gtaattasta aerectaatt 2 384 -tt get att gea get gaa ata get tet gt etg	2534
135 135	2654
576 + + as 1.5 t t rtal out a ceamage	2714
38% matteccaae catthaamag ttgcatgatt ggatteadad testady. tt aatamaaaa aamaattat: atatact tt aatamaaaaa aamaattat ggattaaaaattat aatamaaaaaaaaaa	2774
300 gatataaatt tytsattaaa ttydastaaa aadadtta; addeds 300 gatataaatt tytsattaa tattaaaact attttaaaa ttdaatscta astottttt 300 atttatstaa ttisattiat tattaaaact atategttyy aayatys: at asaadca†tt	834
292 Atttatotaa titaattiat tattaaaast attittaada teeddoosia asaadoafti 394 aatogagagaa tgtaagetgg caccaacagt atatogatgg aagatgo:at asaadoafti 394 aatogagagaa tgtaagetgg caccaacagt aattoaaaat actottaatt gtgattagta	8.44
394 Hatoggayca tgtsagotgg canocacogt atatogotgg adjudgs at gtgattagts 396 hattaatgga tgghatoadt baaaacattt aattoaaaat antottsatt gtgattagts 396 hattaatgga tgghatoadt baaaacaata attaatttga ottaatoaga taaaaaaaca	294.1
196 Gattaatgga tggmatcadt baaaadattt aattdaadat attitesiiga tagaaaaada 398 atcatgttog ggcmagttad gitgtgtata attaattiga ettaatciiga tagaaaaada 398 atcatgttog ggcmagttad gitgtgtata actggmotgt agaatat jig dittiteaag	3014
398 atcatigttog ggoragitad gittgtgtata attaattiga cittatigg offitticadg 400 watggaogda agonggitag tatagatato actggootgit agaatat jig offitticadg	2(.74
400 Matggaogoa agenggitug tatagatato actggoody agadesi) 400 Matggaogoa agenggitug tatattatat tiagtatiti tititottaa ageocatitaa 400 titaaaataaa agetaacta agadesi agade	3134
40. tttaaataaa ajutadottuu tatattatat ttägruttii ittiseeksaa on ogoaaasta 1 ngtgatttat tgantqtgaa aratgitton acacaragos ttagaaasto on ogoaassta 1 ngtgatttat tgantqua en tratutatg aagataatto atstatgatg ripaastota	31 44
4.4 ogtgatttat tgantqtgas anatgitton acacanagge tragadate i maactota 400 acatotocaa aatungadha titathtaig aagataatto atotatgitg i maactota 400 acatotocaa aatungadha antathaaga attataatag toaaatatag migitatatog	3: 14
400 acatotocaa aduluuda a citataaaga attataatag toaaatatag aagtatatog	3314
406 acatotocaa aatumaanna titatutaig aagataatoo attuutgusga agatatag toaaatatag angtatatog 408 itatatatat giaroatogo agatototo ogiqtaaaaat gottatiota ustagottit	3474
40A ttatatat qtatcatogo agtattaaga attataatag teaddeddy 40A ttatatatat qtatcatogo agtattaaga attataatag gettattota tytagotttt 410 ggtaaatgta gttgcatgtg ogacctgttt ogtqtaaaat gottattagttt gacttttatg 412 tttattggaa aanaacqaug aactaaaaac gaaagggtat catatagatt gottacacaa	3434
412 tttattggaa aataacgatg aactaaaaac gaaagggtat tacattagaat gcatacacaa 414 ttagagagag acatottaat ttggtoatat gttaaataat taattacaat gcatacacaa 414 ttagagagag acatottaat aaatgataaa atatcatagg tatactcaac tatatgatat	3494
114 thagagagag aCatoblade Coggasantes , bestagg tatacticaac tatatgatau	3554
	3610
418 occataaca pasattigtad tittoittidag gcaatigadet eddour. 418 occataaca pasattigtad tittoittidag gcaatigadet eddour. 418 aacaaacato pasittiaaagt ggttoaasat attitatigtaa taattitucag gga gga	2614
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dia na managan ang managan ang tita aya gca	36075
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VERIFICATION SUMMARY

PATENT APPLICATION: US/08/939,905B

DATE: 07/11/2001 TIME: 10:00:11

Input Set: A:\873726u1.sq1
Output Set: N:\CRF3\07112001\H939905B.raw

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date